植物分类学报 25 (5): 401—404 (1987)
Acta Phytotaxonomica Sinica

川滇兰科新植物

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NEW SPECIES OF ORCHIDACEAE FROM SICHUAN AND YUNNAN, CHINA

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Key words *Orchidaceae*; *Orchis sichuanica*; *O. pugensis*; *Calanthe plantaginea* var. *lushuinensis*
关键词 兰科;四川红门兰;普格红门兰;泸水车前虾脊兰

1. **四川红门兰** 新种 图1

Orchis sichuanica K. Y. Lang, sp. nov.——*O. chusua* auct. non D. Don: Tang, Wang et Lang in Acta Phytotax. Sin. **18**(4): 415. 1980, quoad T. T. Yu 2174.

Species petalis labelloque margine papilloso-ciliatis, calcari dependenti *O. omeishanicae* Tang, Wang et Lang similis, sed floribus violaceis non flavo-virentibus, petalis utrinque papillosis, sepalis apice obtusis non breviter aristatis, ovario papilloso differt. Ab *O. pugensi* K. Y. Lang differt ovario papilloso, bracteis floribus brevioribus, floribus majoribus, sepalo intermedio 8—10 mm lango, sepalis utrinque plus minusve papillosis, staminodiis magnis.

Herba terrestris, 19—32 cm alta; tubere oblongo vel elliptico, carnoso, 1—2 cm longo, 5—10 mm diam.; caule erecto vel suberecto, tereti, gracili vel crassiore, glabro, prope basin 2-vaginato; foliis 2—3, laxis, alternatis, erecto-patentibus, infimo majore, oblongo, ovato vel anguste oblongo, 3.5—7 cm longo, 1—4 cm lato, apice acuto vel acuminato; racemo erecto, 2—16-floro, 4.5—11 cm longo; bracteis ovato-lanceolatis, apice acuminatis, ovariis brevioribus vel interdum infimis 1—2 ovariis paulo longioribus, sed floribus brevioribus; floribus violaceis, laxis vel densiusculis; sepalis utrinque plus minusve papillosis, margine integris vel interdum plus minusve papilloso-ciliatis, apice obtusis, sepalo intermedio elliptico, erecto, 8—10 mm longo, 3—4 mm lato, 3-nervi lateralibus oblique ovatis, reflexis, 9—11 mm longis, c. 5 mm latis, 3—4-nervibus; petalis erectis, oblique ovatis, cum sepalo intermedio conniventibus et paulo brevioribus, utrinque papillosis, margine manifeste papilloso-ciliatis, 3-nervibus; labello reflexo, circuitu late

ovato, 12—15 mm longo, medio 10—12 mm lato, utrinque papilloso, margine papilloso-ciliato, basi calcarato, juxta medium trilobo, lobis forma bene variabilibus, lobo intermedio oblongo, quadro, ovato vel obovato, 3.5—6 mm longo, 2—3.8 mm lato, antice rotundo, apice acuto vel retuso, vel antice undulato-tridentato vel tridentato, lobis lateralibus inclinatis, apice obtuse rotundis vel obtusis, calcari cylindraceo, pendulo, crasso, 18—22 mm longo, 2—3 mm diam., apice obtuso, ovario subaequilongo vel longiore; gynostemio crasso, brevi, 2—3 mm longo; antherae loculis subparallelis; pollinia 2, obovata, grosse granulosa, caudiculata, glandulis 2, subrotundatis, non nudis, globulo unosaturate viscido circumdatis; stigmate uno concavo; staminodiis 2 margnis, ellipticis, 0.5 mm longis, 1.5 mm latis; ovario cylindraceo, torto, papilloso, cum pedicello 20—22mm longo.

Sichuan: Baoxing, Ganyangsi, alt. 2400 m 3 VI 1933, T. T. Yu 2174 (Type, PE); same locality, Meilichuan, Yinchanggou, alt. 2450 m, 30 VI 1936, leg. C. L. Chü 3055.

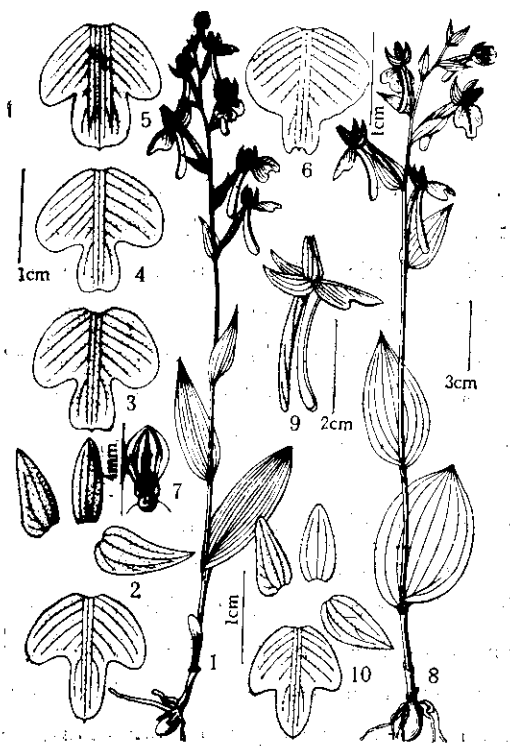

图 1 四川红门兰 *Orchia sichuanica* 1.全株 whole plant; 2. 中萼片、花瓣、侧萼片和唇瓣 dorsal sepal, petal, lateral sepal and lip; 3—6. 不同标本的唇瓣 lips from different specimens; 7. 蕊柱 column; 1—7. from the type specimen; 8. 全株 whole plant; 9. 花的侧面观 flower, side view; 10. 中萼片、花瓣、侧萼片和唇瓣 dorsal sepal, petal, lateral sepal and, lip. (刘春荣绘)

叶 2—3 枚，矩圆形、卵形或狭矩圆形。总状花序具 2—16 朵花；花苞片短于花、花紫萝蓝色。萼片两面或多或少具细乳突，边缘全缘或有时多少具乳突状睫毛，先端钝，中萼片椭圆形，侧萼片斜卵形，反折。花瓣直立，斜卵形，两面具多数细乳突，边缘具明显的乳突状睫毛。唇瓣反折，轮廓为宽倒卵形，两面具多数细乳突，边缘具乳突状睫毛，近中部 3 裂，裂片形状变化大；中裂片矩圆形、正方形、卵形或倒卵形，前部圆形，先端急尖或凹陷，或前部具波状 3 齿或 3 枚齿；侧裂片向下倾斜，先端钝圆或钝。距圆筒状，下垂，粗壮，直径 2—3 mm，与子房近等长或较子房长；柱头 1，凹陷；退化雄蕊大，椭圆形，长 0.5 mm，宽 1.5mm；子房具多数细乳突。

四川：宝兴，赶羊寺，山坡草地，海拔 2400 m，1933 年 6 月 3 日，俞德浚 2174 号（模式，PE）；同县，梅里川，银厂沟，海拔 2450 m，1936 年 6 月 30 日，曲桂龄 3055 号。

本种花瓣与唇瓣的边缘具乳突状睫毛，距下垂，与峨眉红门兰 *O. omeishanica* Tang, Wang et Lang 相近，不同点在于

本种花紫萝蓝色，非淡黄绿色；花瓣两面具多数细乳突；萼片先端钝，不具短芒尖；子房具多数细乳突等颇易识别。与普格红门兰 *O. pugensis* K. Y. Lang 不同之点在于本种子房具多数细乳突；花苞片短于花；花大，中萼片长 8—10 mm，萼片两面或多或少具细乳突；退化雄蕊大。

2. **普格红门兰**　新种　图 2

Orchis pugeensis K. Y. Lang, sp. nov.

Species *O. omeishanicae* Tang, Wang et Lang similis, sed floribus purpurascentibus non flavo-virentibus, bracteis lanceolatis floribus omnino longioribus, sepalis petalisque crassiusculis apice obtusis, petalis labelloque intus papillosis, lobo intermedio labelli oblongo 3,5 mm longo apice acuto differt. Ab *O. exili* Ames et Schltr. differt petalis intus papillosis, bracteis floribus omnino longioribus, calcari dependenti non retrorso.

Herba terrestris, 30 cm alta; tubere oblongo, carnoso, 2 cm longo, 8 mm diam.; caule tereti, suberecto, glabro, prope basin 2-vaginato; foliis 2 laxe alternatis, oblongis vel oblongo-lanceolatis, 7.5—10.5 cm longis, 2—2.7 cm latis, apice acutis vel acuminatis, basi attenuatis amplexicaulibus; racemo 13-floro, cylindraceo, 7 cm longo; bracteis lanceolatis, apice acuminatis, floribus omnino longioribus; floribus purpurascentibus, densiusculis; sepalo intermedio erecto elliptico, 5.5mm longo, 2.5 mm lato, apice obtuso, 3-nervi, lateralibus oblique ovatis, patentibus, 7 mm longis, 3.5 mm latis, apice obtusis, 3—4-nervibus; petalis oblique ovatis, erecto-patentibus, 5 mm longis, 2.5 mm latis, intus papillosis, apice obtusiusculis, margine papilloso-ciliatis 3-nervibus; labello reflexo, circuitu ovato, 8 mm longo, medio 6 mm lato, intus papilloso, medio carina una longitudinali instructo, margine papilloso-ciliato, basi calcarato, juxta medium trilobo, lobo intermedio oblongo, 3.5mm longo, 2 mm lato, apice acuto, lobis lateralibus oblique falcatis, apice obtusis, calcari pendulo cylindraceo, 10 mm longo, apice obtuso, ovario breviore; gynostemio crasso, brevi, 2 mm longo; antherae loculis subparallelis; pollinia 2 obovata, grosse

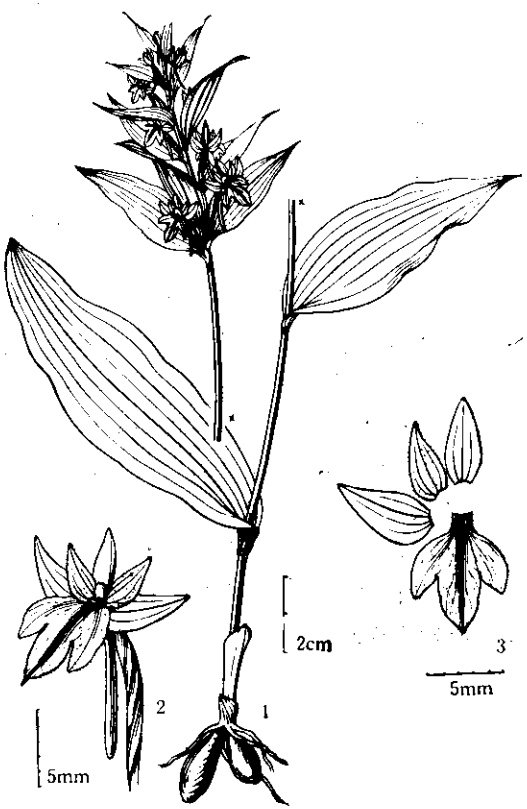

图 2　普格红门兰 *O. pugeensis*　1. 全株 whole plant; 2. 花 flower; 3. 中萼片、花瓣、侧萼片和唇瓣 dorsal sepal, petal, lateral sepal and lip.
（张泰利绘）

granulosa, caudicula brevi, glandulis 2 rotundatis, non nudis, globulo uno saturate viscido circumdatis; stigmate uno concavo; staminodiis 2 minutis, ellipticis; ovario cylndraceo-fusiformi, torto, glabro, cum pedicello 12—13 mm longo.

Sichuan: Puge, alt. 2800 m, 4 VIII 1960, Sichuan Med. Pl. Exped. 25150 (Type, JSBI).

叶 2 枚,矩圆形或矩圆状披针形。总状花序具 13 朵花;花苞片披针形,大,均长于花;花淡紫色;中萼片直立,椭圆形,长 5.5 mm,侧萼片斜卵形,张开;花瓣斜卵形,直立伸展,内面具细乳突,边缘具乳突状睫毛;唇瓣反折,轮廓为卵形,内面具细乳突,中间具 1 条纵的脊状隆起,边缘具乳突状睫毛,近中部 3 裂,中裂片矩圆形,先端急尖,侧萼片镰状,先端钝,距下垂,圆筒状,短于子房;柱头 1,凹陷;退化雄蕊小,椭圆形;子房圆柱状纺锤形,无乳突。

四川:普格,海拔 2800 m, 1964 年 8 月 4 日,四川药源普查队 25150 (模式, JSBI)。

本种与峨眉红门兰 *O. omeishanica* Tang, Wang et Lang 相近,而不同点在于本花为淡紫色,非淡黄绿色;花苞片均长于花;萼片和花瓣稍厚,先端钝,非短芒尖;花瓣和唇瓣内面具细乳突;唇瓣的中裂片矩圆形,长 3.5 mm,先端急尖等颇易识别。与 *O. exilis* Ames et Schltr. 不同点在于本种花瓣内面具细乳突;花苞片均长于花;唇瓣的距下垂,非向后伸等。

3. **泸水车前虾脊兰** 新变种

Calanthe plantaginea Lindl. var. **lushuiensis** K. Y. Lang et Z. H. Tsi, var. nov.

A varietate typica calcari brevi 5 mm longo ovario (cum pedicello) multo breviore, sepalis petalisque brevioribus et latioribus, petalis ellipticis sepalis lateralibus latioribus, sepalo intermedio ovato, sepalis lateralibus anguste oblongis non oblanceolatis differt.

Yunnan: Lushui, Yaojiaping, alt. 2500 m, flowers yellow, 7 VI 1981, Hengduan Mountain Exped. Inst. Bot. 557 (Type, PE).

本变种与原变种的区别在于距短,长 5 mm,较子房(连花梗)短多;萼片和花瓣较短而宽;花瓣椭圆形,较侧萼片宽;中萼片卵形,侧萼片狭矩圆形,非倒披针形。

云南:泸水,姚家坪道班林场,常绿阔叶林下,海拔 2500 m,花黄色,1981 年 6 月 7 日,植物所横断山队 557 (模式, PE)。